RUKAVISHNIKOV, S.V., kand.tekhn.nauk; SHURTYGIN, K.I., kand.tekhn.nauk; FEDIN, I.V., insh.

Interchangeable working parts for the FTK-GPI-38 cutting trench digger. Stroi. i dor. mash. 8 no.2(11-12 F '63. (MIRA 16:3) (Excavating machinery)

NIKOLAYEV, A.F., kund. tekhn. nguk; FEDIN, I.V., inzh.; FOL', L.R., inzh.

New machinery for working frozen soils. Stroi. i dor. mash.?
no. 10:1-2 0'64.

(MIRA 18:1)

FEDIN. K.A.; BAYEVSKIY, D.A., doktor istor.nauk; VOLKOV, N.S., doktor istor.nauk; GENKIHA, E.B., doktor istor.nauk; KUCHKIN, A.P., doktor istor.nauk; KOSTONAROV, G.D., prof.; DADYKIN, R.P., kand. istor.nauk; ROGACHEVSKAYA, L.S., kand.istor.nauk; SHARALIN, B.I., kand.istor.nauk; MAMONTOV, I.S.; PIROGOV, V.K., prepodavatel

PETERS WENNESS WANTED BY THE PETERS OF THE P

Let's write the history of our plants and factories; a letter to the editors. Sov.profsoiusy 16 no.7:62-63 Ap '60.

(MIRA 13:4)

1. Sekretar' Soyuza pisateley SSSR (for Fedin). 2. Glavnyy redaktor izd-va "Moskovskiy rabochiy" (for Mamontov). (Factories)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610004-3"

24(4)

SOV/51-6-5-26/34

AUTHORS:

Zakhar yevskiy, A.N. and Fedin, L.A.

TITLE:

Measurement of Double Refraction of Fibres (Izmereniye dvoynogo lucheprelomleniya volokon)

PERIODICAL:

Optika i Spektroskopiya, 1959, Vol 6, Nr 5, pp 701-703 (USSR)

ABS TRACT:

A polarization microscope suitable for measurement of double refraction in fibres is shown in Fig 1. A fibre F is placed in a suitable immersion medium between an objective Ob and a condenser K. The other parts of the microscope are: a polarizer P, an analyser A, an ocular Oc and a Wollaston prism W (placed in the image plane). For 0.01-0.02 mm thick fibres the magnification is 500 X. The system produces linear interference bands at right-angles to the fibre. A fibre displaces the bands by an amount  $\Delta N$  which is related to double refraction, defined as the difference between the refractive indices of polarized rays  $(n_N - n_1)$ , by the following expression

$$\Delta N = \frac{a(n_{\parallel} - n_{\perp})}{\lambda} , \qquad (1)$$

Card 1/3

where a is the thickness of the fibre and  $\lambda$  is the wavelength of the light used. Fig 2 shows a microphotograph taken in green light

Measurement of Double Refraction of Fibres

SOV/51-6-5-26/34

(546 mμ). The five fibres shown in Fig 2 are: (1) caprone,
(2) "lavsan", (3) nitron, (4) cuprammonium rayon, (5) viscose rayon.
The strongest double refraction occurs in "lavsan" (fibre 2) and the weakest (it is also of the opposite sign) in cuprammonium rayon (fibre 4). In order to measure ΔN precisely it is convenient to use a screw micrometer with its hair-line in the image plane. For this purpose the scheme of Fig 1 is replaced by one of the two variants shown in Fig 3: two Wollaston prisms W<sub>1</sub> and W<sub>2</sub> are used and the micrometer hair-line is placed in the image plane Q. This idea is due to L.A. Fedin (author's certificate No. 604720/26 dated July 25, 1958). Double refraction (n<sub>11</sub> - n<sub>1</sub>) of a uniform fibre is now calculated from

$$(n_{\parallel} - n_{\perp}) = \frac{R\lambda}{8MS} , \qquad (7)$$

Card 2/3

where R is the area (measured microphotometrically) bounded by the curved interference band in the fibre and the original rectilinear band

Measurement of Double Refraction of Fibres

50V/51-6-5-26/34

(c.f. Fig 4, part A), E is the separation between undisplaced bands, M is the magnification of the microscope and S is the cross-sectional area of the fibre. There are 4 figures and 2 references, 1 of which is German and 1 English.

SUBMITTED: December 4, 1958

Card 3/3

AUTHOR: -

Fedin, L. A.

TITLE:

On the application of a thin Lummer-Ghercke plate. (O primenenii tonkoy plastinki Lyummera - Gerke):

PERIODICAL: Astronomicheskii Zhurnal, 1957, Vol.34, No.1, pp.135-138 (USSR)

It is shown, using a conventional argument (Tolansky (3)), that the resolving power of a thin (0.2 mm) Lummer-Ghercke plate as calculated by H. V. Merkvlov (1) is incorrect. The

 $= 6.1 \times 107$ 

whereas the correct value is

 $= 2.43 \times 10^4$ 

This is, of course, of the order of the resolving power of a prism spectrograph. The same applies to the dispersion of the

The spectral range of the plate is only 10 - 15 % there are considerable constructional difficulties. On balance, the thin Lummer-Ghercke plate is of doubtful value.

1 Figure and 1 Table. 5 references, all of which are Russian.

Recd. Oct. 15, 1955.

THE PERSONAL PROPERTY IS NOT THE

ALEKSANDROV, V.Ya., prof.; BRODSKIY, V.Ya.; BRONSHTEYN, A.A.;
BRUMBERG, Ye.M.; VAKHTIN, Yu.B.; VINNIKOV, Ya.A.;
GAYTSKHOKI, V.S.; GOROSHCHENKO, Yu.L.; GULYAYEV, V.A.;
ZHINKIN, L.N.; ZAVARZIN, A.A.; ZALXIND, S.Ya.; ZBARSKIY,
I.B.; KATSNEL'SON, Z.S.; KONISSARCHIK, Ya.Yu.; IEVIN, S.V.;
MARAKHOVA, I.I.; MASHANSKIY, V.F.; MOSEVICH, T.N.; NIKOL'SKIY,
N.N.; PESHKOV, M.A.; POLENOV, A.A.; POLYANSKIY, Yu.I.;
ROZENTAL', D.L.; RUMYANTSEV, P.P.; TITOVA, L.K.; FEDIN, L.A.;
KHEYSIN, Ye.M.; CHERNOGRYADSKAYA, N.A.; TROSHIN, A.S., otv.
red.; MEYSEL', M.N., red.; MIKHAYLOV, V.P., red.; NEYFAKH,
S.A., red.; PARIBOK, V.P., red.; POLYANSKIY, Yu.I.; red.;
RAYKOV, I.B., red.

[Manual on cytology in two volumes] Rukovodstvo po tsitologii v dvukh tomakh. Moskva, Nauka, Vol.1. 1965. 571 p.

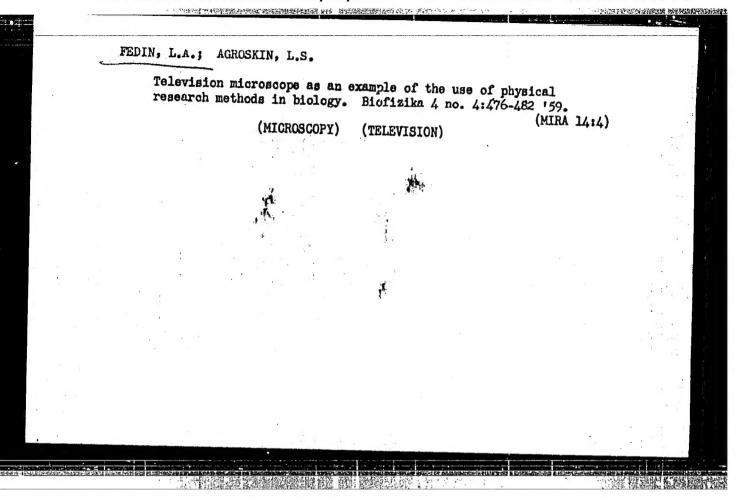
(MIRA 18:2)

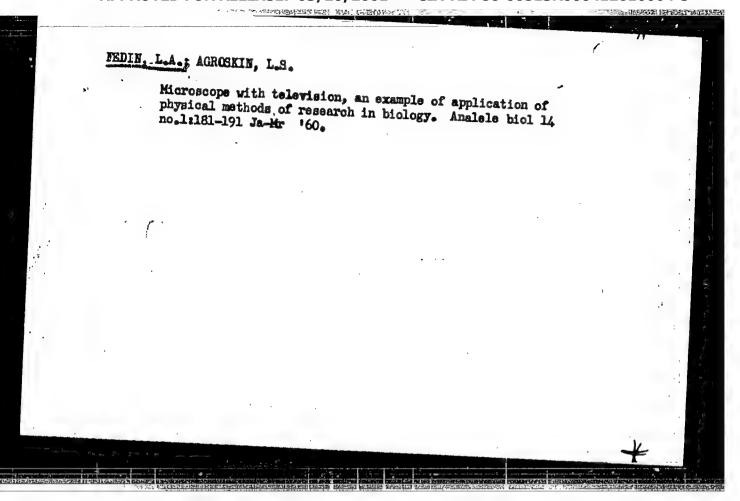
1. Akademiya nauk SSSR. Institut tsitologii.

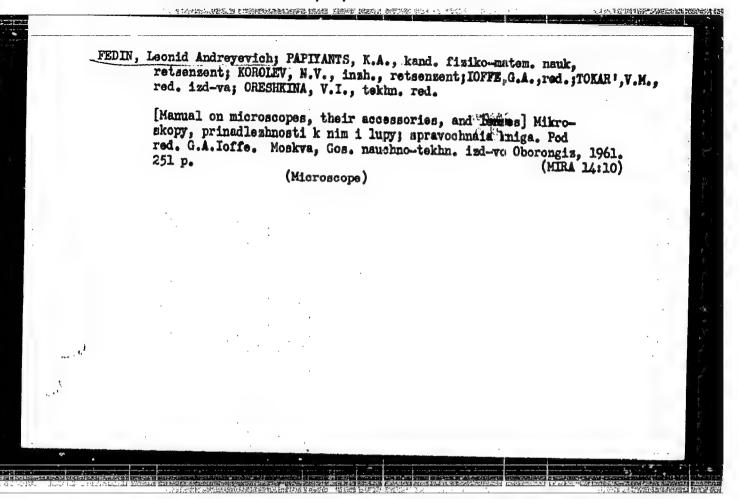
KHOKHRYAKOV, V., kand. tekhn. nauk; SHAGANSKIY, R., inzh.; LEBEDEV, A., insh.; ORICHENKO, I.; FEDIN, L.; TELYATNIKOV, Ya., akkumulyatorshchik

Readers' letters. Avt. transp. 37 no.12:43-44 D '59.
(NIRA 13:3)

1.Zhigulevskoye passashirskoye avtokhosyaystvo (for Telyatnikov)
(Motor vehicles)



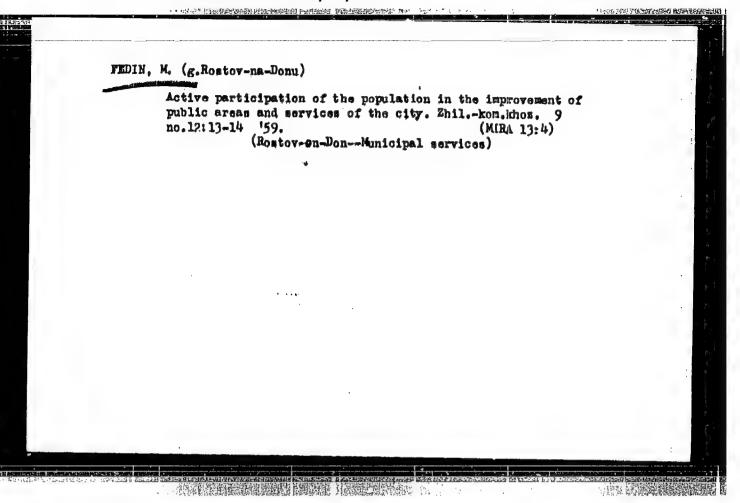


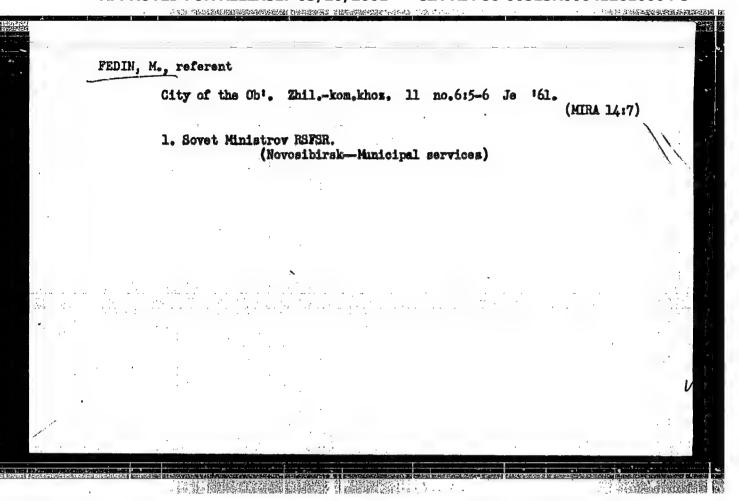


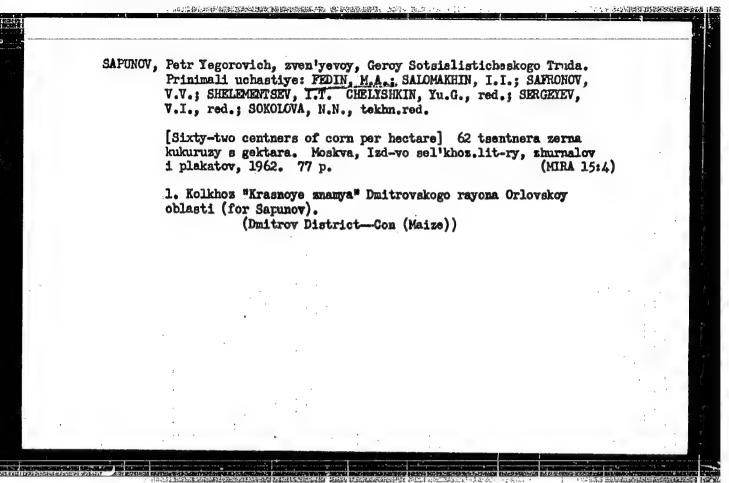
 BERESTNEV, V.A.; DUBOVA, L.S.; PRYANIKOVA, T.S.; FEDIN, L.A.

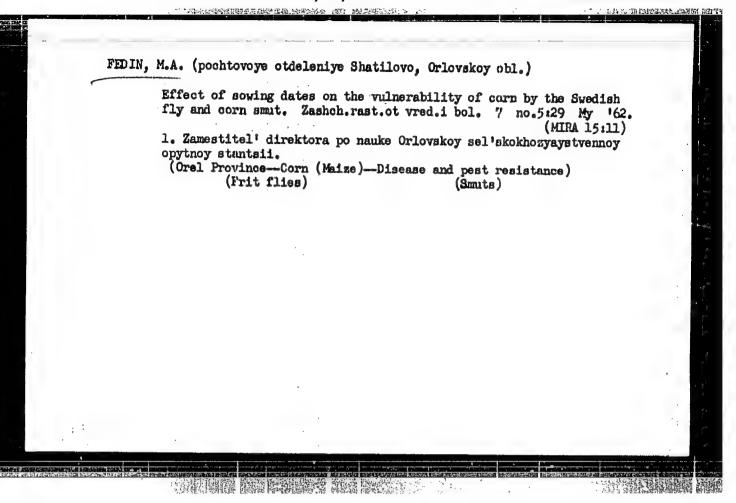
Inhomogeneity of oriented fibers. Vysokom. soed. 6 no.7s13021307 J1 '64 (MIRA 18:2)

1. Nauchno-issledovate) skiy institut shinnoy promyslennosti.









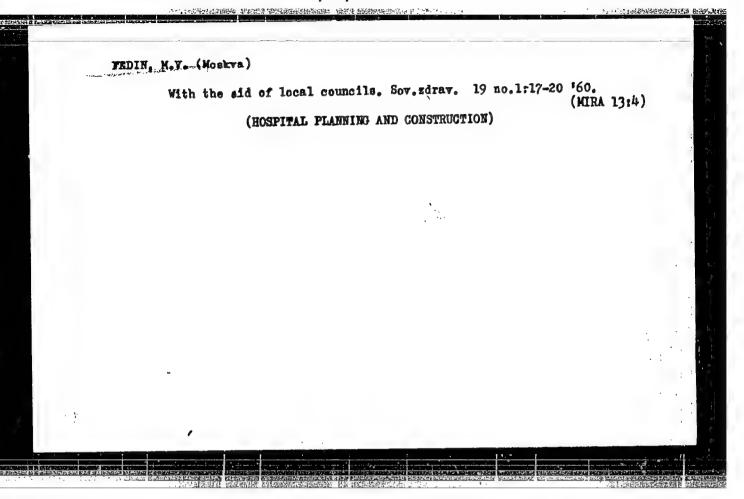
FEDIN, Marat Aleksandrovich; SLEPTSOVA, K., red.; KUZIN, N., tekhn.
red.

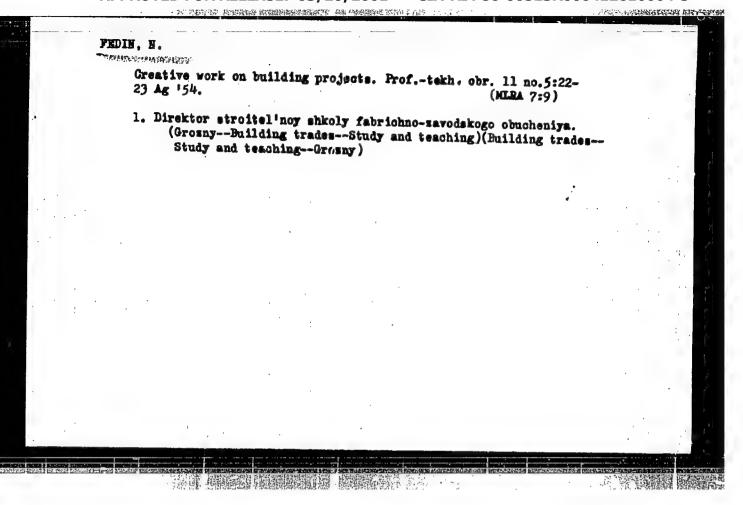
[Corn] Kukuruza. Orel, Orlovskoe knizhnor izd-vo, 1963, 130 p.

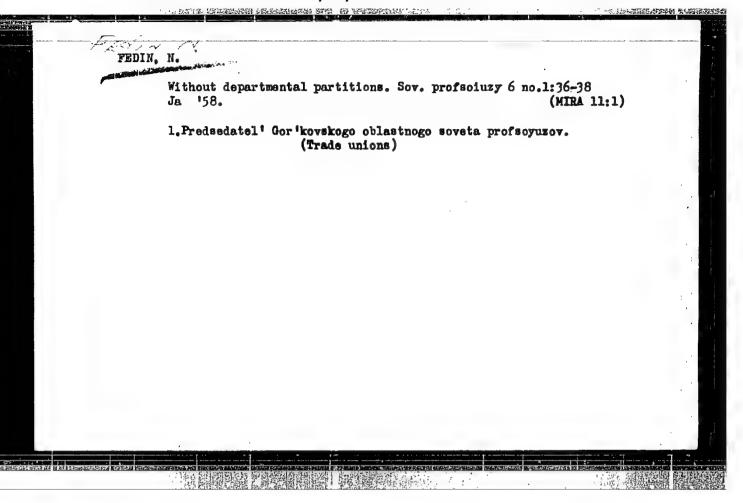
(MIRA 16:12)

(Corn (Maize))

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610004-3"







- 1. FEDIN, N.F.
- 2. USSR, (600)
- 4. Technology
- 7. Kzyl-Ordin massif of irrigation of the left shore of the lower reaches of the Syr-Dar'ia riger, Alma-Ata Izd. AN Kazakhskoi SSR, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March, 1953. Unclassified.

Card : 1/1 Pub. 1.23 - 11/19

Authors : Fedin, N. P., Cand. of Geological-Mineralogical Sciences

Title : Determination of water output coefficient of rocks

Periodical: Vest. AN Kez. SSR 12, 78 - 83, December 1953

Abstract : An experimental method for the determination of the coefficient of water extraction from rocks, is described. Three USSR references (1934-1950). Graphs, diagram.

Institution : Acad. of Sq. Kaz. SSR, Alma-Ata

Presented by : Academician K. I. Satpaev

FEDIN, N. F.

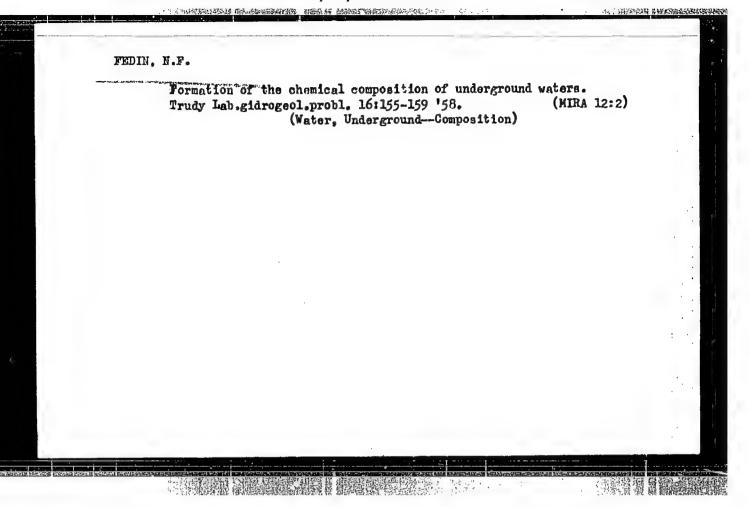
"Problems of Studying the Mineralization of Ground Waters of Irrigated Regions," Izv. AN KazakhSSR. Ser. geol., No 16, 76-84, 1953

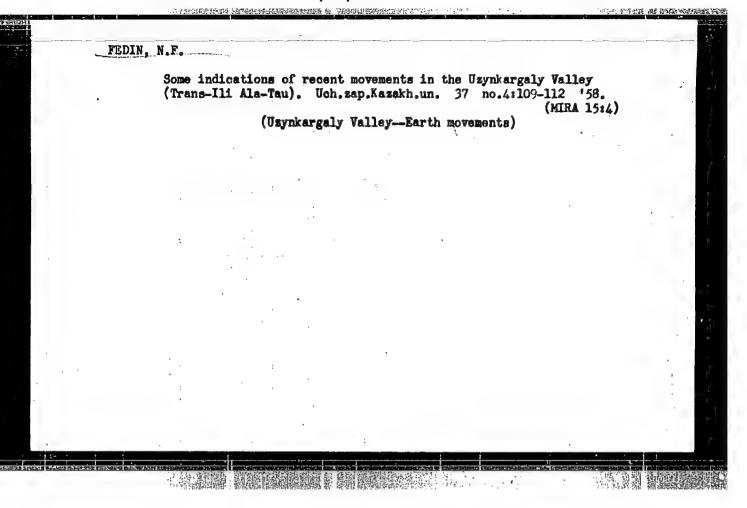
· . 11、行利的国际政务的企业和设计,但是国际政务的企业的企业的企业的企业的企业。

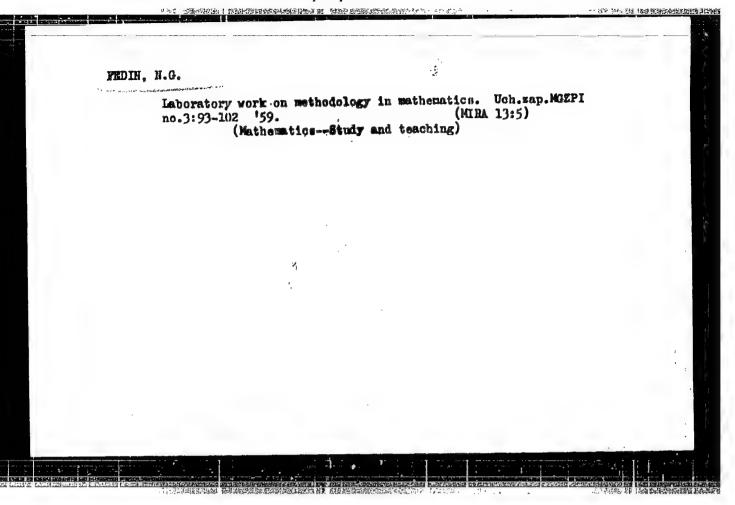
The authors considers the laws governing the transposition and accumulation of salts in the ground waters of irrigated regions and of neighboring territories on the example of the left-bank portion of the Kzyl-Orda land mass being irrigated. On the basis of a processing of the data of more than 250 chemical analyses of water by methods of variational statistics, the author obtains typical analyses for each degree of mineralization of the ground waters and obtains curves showing the dependence of this degree on depth of the water and remoteness from irrigated land.

RZhGeol, No 1, 1955

TO . THE REAL PROPERTY OF THE PROPERTY OF THE PARTY OF TH FEDIN, H. F. USSR/Miscellaneous - Archaeology Card 1/1 Pub. 123 - 10/13 Authors Fedin, N. F., and Vladimirov, N. M. Title Archaeological finds in the region between the Volga and the Ural Periodical Vest. AN Kaz. SOR, 11/2, 75-81, Feb 1954 Abstract ... ! - In the region between the Volga and the Ural, which is flooded in the springtime, there is a slightly higher and drier area in which relice of an ancient civilization were found. A study of these, with a view to determining their origin and date, led to the conclusion that the region was inhabited from the Neolithic era up to the middle of the first millenium A. D. Illustrations; map. Institution Submitted







MANTUROV, Oleg Vasil'yevich; SOINTSEV Yuriy Konstantinovich; SORKIN, Yuriy Isaakovich; FEUCN, Nikolay Georgiyevich; PUL'KIN, S.P., doktor fiz.—mat. nauk, retsenzent; KONDRAT'YEV, V.A., kand. fiz.—mat. nauk, retsenzent; MISHIN, V.I., kand. ped. nauk, retsenzent; VEYTSMAN, I.B., prepodavatel', retsenzent; KREYDLIN, Ye.G., prepodavatel', retsenzent; PYSHKALO, A.M., prepodavatel', retsenzent; DITKIN, V.A., prof., red.; YAKOVKIN, M.V.,

· 5. 图1. 印架自分組 科索诺亚纳特别和西部高级的 医耳镜神经病 人名德里尔 (14) (14)

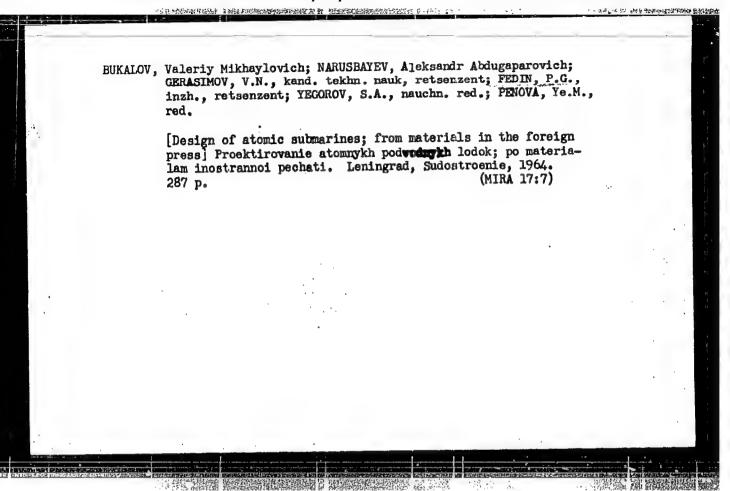
[Explanatory dictionary of mathematical terms; textbook for teachers] Tolkovyi slovar' matematicheskikh terminov; posobie dlia uchitelei. Moskva, Prosveshchenie, 1965. 539 p. (MIRA 18:7)

FEDIN, Nikolay Yermolayevich; MAKAROVA, E.A., red.; SHADRINA, N.D., tekhn.
red.

[Trade-union organization and technological progress] Profsoiuznaia organizatedia i tekhnicheskii progress. Moskva, Izd-vo VTs SPS
Profizdat, 1961. 77 p. (MIRA 14:11)

1. Predsedatel' Gor'kovskogo oblastnogo soveta profsoyuzov (for Fedin).

(Trade unions) (Technology)



# SIDORENKO, G.I.; FEDIN, P.G. Vicarious menstruations in the form ? pulmonary hemorrhages. Probl. endok. i gorm. 10 no.6:53-55 N-D '64. (MIRA 18:7) 1. Kafedra fakul'tetskoy terapii Minskogo meditsinskogo instituta i 4-ya klinicheskaya bol'nitsa (glavnyy vrach Ye.M.Sel'dimirova), Minsk.

GALUZEVSKIY, Georgiy Nikolayevich[deceased]; FEDIN, P.S., red.;
SMIRNOVA, R.N., red. izd-va; LELYUKHIN, A.A., tekim. red.

[Accounting in repair and construction organizations]Bukhgalterskii uchet v remontho-stroitellykh organizateitakh.

Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1962. 182 p.

(Construction industry—Accounting)

(MIRA 15:19)

KHMEL'NITSKAYA, Vera Vladimirovna; FEDIN, P.Ye., otv. red.;

ZAKHARUTINA, G., red.

[Group system of raising dam-suckled calves in the Maritime Territory] Podeoeno-gruppovee vyrashchivanie molodniaka v Primorskom krae. Vladivostok, Primorskoe knizhnoe izd-vo, 1962. 37 p.

(MIRA 17:4)

— FEDIN, T. : Rumania CATEGORY ABS. JOUR. : RZKhim., No. No. 86180 1959. AUTHOR :Banateanu, Ch.; Serbanescu, A.; \* : Bucharest Institute of Fetroleum and Gas INST. TITLE : Rapid Determination of Phosphoric Acid in Kola Apatite and Bone Meal by the Method of Copaux. ORIG. PUB. : Lucrarile Inst. petrol si gaze Bucuresti, 1957, 3, 345-352 ABSTRACT: For determination of P205 in apatite and bone meal, use is made of the method of Copaux (Copaux H., C. R. des Seances de l'Acad. des sciences, 1921, 173, p. 656), based on formation of ether-phosphomolybdic acid complex in an acidic medium (pH 0.45-0.65). The latter, after centrifugation, is separated from excess ether and water, as a yellow, oily liquid, the volume of which depends on P<sub>2</sub>O<sub>5</sub> content of the sample. To the sample being analyzed (5 g) are added 10 ml concentrated ENO<sub>3</sub> and 50 ml concentrated H<sub>2</sub>SO<sub>4</sub>, the mixture is evaporated until SO<sub>3</sub>-fumes are evolved, cooled, 200 ml water are added, heated to a boil, cooled, diluted with water to 500 ml, and filtered. CARD: 1/3 \* Vrabiescu, E.; Fedin, T. 101

COUNTRY Rumania E-2 CATEGORY ABS. JOUR. : RZXhim. No. 1959. No. 86180 AUTHOR INST. TITLE ORIG. PUB. : ABSTRACT : Bone meal is first calcined. P205 is determined in a special test tube into which are placed 2 ml of the above-stated filtrate, 3 ml water, 5 ml 15% HCl (or 20% H<sub>2</sub>SO<sub>4</sub>), 4 ml ether (free from C<sub>2</sub>H<sub>5</sub>OH), and 5 ml 14% solution of Na-molybdate, the mixture is thoroughly stirred and centrifuged for 3 minutes. The ether-phosphomolybdic complex collects in the lower, narrower, graduated part of of the test tube, where its volume can be read off (with an error of up to 0.01 ml). It was ascertained that there is exact proportionality between volume of the liquid and content of P205; therefore the latter is determined by the method of interpolation, using for this purpose the data CARD: 2/3

### "APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610004-3

CATEGORY	Rumania	£-2	
ABS. JCUR.	: RZKhim., No.	1959, No. 86180	
AUTHOR INST. TITLE	:		
oale. Pub.	;		
ABSTRACT ( \sime \xi g/lit the gravime	: obtained with er). In accuracy, tric: duration of	a standard solution of the method is not inferdetermination is of 15	KH <sub>2</sub> PO <sub>4</sub> ior to
	,	B. Manole.	minutes.
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GARD: 3/3		B. Nanole.	rinuces.

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ACC NR; N160291/13 DJ/WE SOURCE CODE: RU/0007/66/017/002/008/1/009	14 ]
AUTHOR: Serbanescu, Ana (Engineer); Fedin, Tarara (Engineer); Popovici, Tatiana (Engineer)	
ORG: none	
TITLE: Determination of the total sulphur content of some Rumanian crude oils from different geological formations	in the second
SOURCE: Petrol si gaze, v. 17, no. 2, 1966, 8/1-9/1	
TOPIC TAGS: chemical composition, crude petroleum, petroleum	
ABSTRACT: A report on the determination of the total sulphur contents of 19 crude oils from well-known geologic formations in six different humanian petroliferous structures. The importance of sulphur contents analysis is discussed, and an attempt is made to correlate the sulphur contents with the age of the geological formations. Orig. art. has: 2 figures, 2 formulas and 5 tables. [JPRS: 36.556]	<b>€</b>
SUB CODE: 11, 07 / SUBM DATE: none / ORIG REF: 017 / SOV REF: 005	
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Company to the contract of the	

CIA-RDP86-00513R000412610004-3" APPROVED FOR RELEASE: 03/20/2001

R/007/61/012/001/003/003 A231/A126

AUTHORS:

Constantinescu, M., Constantinescu, T. and Fedin, Tamara

TITLE:

Contributions to the study of the catalytic condensing of ethylene

with hydrogen sulfide

PERIODICAL: Petrol si Gaze, v. 12, no. 1, 1961, 33 - 43

TEXT: The article presents a solution regarding the production of ethylmercaptan from ethylene and H<sub>2</sub>S with the aid of palladious and nickel sulfide catalysts. In a previous work: [Ref. 1: Constantinescu, M., and Constantinescu, T.: "Petrol și Gaze", no. 7, 1959, 298-304], the authors have shown that mercaptans can be produced by three method groups: i.e. by treating a neutral alkylic monoester (R - SO<sub>4</sub>Na) with Na SH; from alkylic halogens (R - Cl) with NaS under pressure, and by catalytic methods. The catalysts allow a synthesis starting with reactants such as ethyl alcohol or ethylene, which directly lead to ethylmercaptan. In the above mentioned work (Ref. 1), the authors have studied the synthesis of mercaptans from lower alcohols. Since in the near future ethylene will be made from cracking gases or chemical reactions of methane, the study has been extended also on the synthesis of ethylene and hydrogen sulfide: C2H4 + H2S Card 1/3

Contributions to the study ...

R/007/61/012/001/003/003 A231/A126

CoH\_SH. According to the technical literature the photosynthesis with ultraviolet rays has also been studied before beside the above mentioned three methods. The majority of the publications refer to higher olefines, but not to ethylene. On the basis of the foreign literature, the authors have established that only the photochemical method supplied a higher efficiency (80%) for propylmercaptan at a temperature of 0°C. For ethylmercaptan the temperature is lower and the efficiency is negligible. The photochemical method, however, is very difficult to be applied in engineering, and needs an additionally catalyst. The only practical method is the catalytic method after having found a catalyst which supplies corresponding results at a temperature as low as possible and at usual pressure. The oldest examinations were carried out by H.R. Duffey in 1934, who used different catalysts and obtained a maximum ethylene transformation of 23.3% on a nickel catalyst. The task of this work is to find a highly efficient catalyst for the conversion of ethylene into ethylmercaptan. On the basis of the studied literature, the authors could establish that generally the catalysts, which supply a rather weak efficiency for the desired reaction, are the catalysts used also in hydrogenation and dehydrogenation reactions. For this purpose, this field has also been studied and proved to be the right way. A.W. Schultzeps publication [Ref. 4: A.W. Schultze, J.P. Lyon, and J.H. Schort: "Ind. Eng. Chemis-

Card 2/3

Contribution to the study ...

R/007/61/012/001/003/003 A231/A126

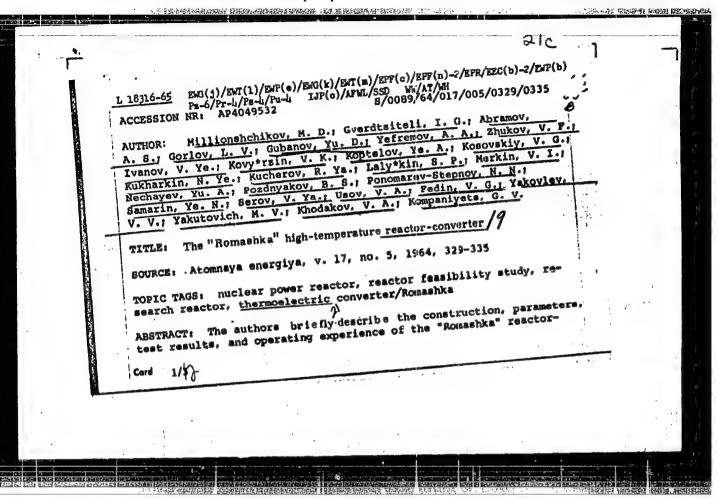
try", Ibid: US 2,392.555; 40, 12, 1948] clearly shows that no higher mercaptan efficiency (66%) was obtained even in the presence of a catalyst, except in two recirculating stages with different catalysts for every stage and different pressures, i.e. 33 and 100 atm, when the reactants were partially in liquid phase. The authors' study was conducted to find a solution usable at ordinary pressure, to avoid technical complications, physical condensations, etc. This paper establishes the conditions and main parameters necessary for the transposition to the pilot or industrial scale. There are 5 tables, 1 figure and 9 references: 7 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: Ref. 2: W.F. Vaughan, F.F. Rust, J. Evans: Org.Chem. 7,466,1942. Ref. 4: A.W. Schultze, J.P. Lyon, G.H. Schort: Ind. Eng. Chemistry Ibid.: U.S. 2.392.555; 40, 12, 1948.

SUBMITTED: August 29, 1960

Card 3/3

BANATEANU, Gh.; CONSTANTINESCU, M.; FEDIN, T.

Behavior of the bentonitic rocks in contact with vatery solutions containing various chemical substances. Pt. 1.
Bul Inst Petrol Rum 9: 39-55 '63.



- 12.11 AND THE THE PROPERTY STREET, STORY AND THE PROPERTY OF THE PROPERTY OF

(. 18316-65 ACCESSION NR: AP4049532

converter unit, which has been in operation at the Kurchatov Atomic Energy Institute since August 1964. The fuel used is uranium dicarbide enriched to 90% U<sup>235</sup>. Graphite and beryllium are used as reflectors. Electricity is generated by silicon-germanium semiconductor thermocouples distributed on the outer surface of the reflector and connected in four groups which can be connected in series or in parallel. The temperatures of the active zone and outer surface are 1770 and 1000C, respectively. The power ratings are 0.50—0.80 kW electric and 40 kW thermal, the maximum current (parallel connection) is 88 Å, the neutron flux is 10<sup>13</sup> neut/cm<sup>2</sup> sec in the center of the active zone and 7 x 10<sup>12</sup> on its boundary. The reactor has a negative temperature reactivity coefficient. The equipment has high inherent stability and requires no external regulator, and little change was observed in the thermocouple properties after 2500 hours of operation. Tests on the equipment parameters are continuing and the results are being analyzed for use in future designs. Orig. art. has: 8 figures and 1 formula.

Cord 2/3

#### "APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610004-3

POSPELOV, G.Ye., doktor tekhn. nauk, prof.; FEL-H, V.G., inzh.

Consideration of the static characteristics of the load in the selection of compensating devices for voltage regulation in nower distribution networks. Izv. vys. ucheb. zav.; energ. 9 no.1:9-14 Ja 166. (MIRA 19:1)

1. Belorusakiy politekhnicheskiy institut. Fredstavlena kafedroy elektricheskikh sistem i setey. Submitted January 5, 1905.

ACCESSION NR: AP4015146 \$/0290/63/000/003/0143/0145

AUTHOR: Levinson, M. S.; Fedin, V. M.

TITLE: The different offect of ultrasonic oscillations on the electrophoretic movement of protein fractions in human blood plasma

SOURCE: AN SSSR. Sib. otd. Izv., no. 12. Ser. biologo-med. nauk, no. 3, 1963, 143-145

TOPIC TAGS: human blood, blood serum protein fraction, blood plasma protein fraction, ultrasonic biological action, protein fraction electrophoretic movement, electrophoregram, 800 kc ultrasonic frequency

ABSTRACT: This investigation was carried out to determine whether ultrasonic oscillation acts specifically on the separate protein fractions of vibrated blood serum and vibrated plasma. Nondiluted blood serum and plasma samples taken from different human donors were vibrated in test tubes at 800 kc at an intensity of 7.6 w/cm² for 1 hr at room temperature. Experimental and control samples were analyzed by electrophoresis (EFA-1 unit) and electrophoregrams were made. Statistical processing of findings shows that electrophoretic

ACCESSION NR: AP4015146

distribution shifts of protein fractions for vibrated blood and for vibrated serum are the same. Protein is found to increase in the alphal-, alpha2-, and beta-globulin fractions of vibrated blood and serum. These increases indicate that during vibration the separate protein fractions change their electrical properties related to their electrophoretic movement rate. The possibility that the splitting of albumin and gamma-globulin molecules with ultrasonic action may also affect the relative increase of alpha- and beta-globulins is not excluded. The mechanism of ultrasonic biological action requires further investigation. Orig. art. has: 2 tables.

ASSOCIATION: Krasnoyarskiy gosudarstvennywy meditsinskiy institut, (Krasnoyarsk State Medical Institute); Institut fiziki Sibirskogo otdeleniya AN SSSR, Krasnoyarsk (Physics Institute of the Siberian Division, AN SSSR)

SUBMITTED: 31

31Aug62

DATE ACQ: 13Mar64

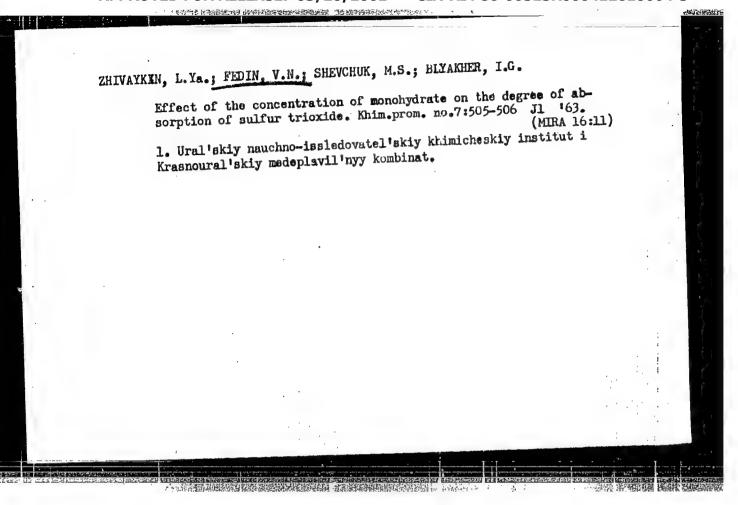
ENCL: 00

SUB CODE: IS

NR REF SOV: 010

OTHER: 003

Card 2/2



#### CIA-RDP86-00513R000412610004-3 "APPROVED FOR RELEASE: 03/20/2001 医治疗性性原因性 化可加度中的性色性结合性 医角性神经神经病

77010 SOV/133-60-2-10/25 18.5100

Bayrakov, V. I., Fedin, V. P. AUTHORS:

Investigation of 1,200-mm Reversing Thin-Strip Mill TITLE:

With Coilers Located in Heating Furnace

Stal', 1960, Nr 2, pp 130-133 (USSR) PERIODICAL:

The authors investigated the power parameters of a two-high mill with coilers inside the furnaces at ABSTRACT:

Nove-Lipetskiy Metallurgical Plant in Lipetsk (Nove-Lipetskiy metallurgicheskiy zavod). The following strips from St.2 and St.3-steel (regular C

steel) were rolled:  $8 - 10 - 12 - 16 - 20 \times 1,000 \text{ mm}$ and  $11 \times 750 \text{ mm}$  in roughing stand; 1.5 - 1.75 - 2.0and  $11 \times 750 \text{ mm}$ ,  $1.5 - 1.75 - 2.5 - 3.0 \times 620 \text{ mm}$ ,  $2.5 - 3.0 \times 710 \text{ mm}$ ,  $1.5 - 1.75 - 2.5 - 3.0 \times 620 \text{ mm}$ ,  $2.0 - 2.5 - 3.0 - 4.0 \times 1,000 \text{ mm}$  and  $1.85 - 2.0 \times 900 \text{ mm}$ 

in finishing stand. The following measurements were made in the course of tests: (1) metal pressure

on rolls (by wire pickup) and torsional moments during rolling; (2) current voltage, and number of revolutions

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Investigation of 1,200-mm Reversing Thin-Strip Mill With Coilers Located in Heating Fürnace

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of main drive and coller motors; (3) size and temperatures by optical pyrometer of strip being rolled; (4) rolling time. As a rule, metal pressure on rolls increased from roughing to finishing passes. Maximum pressure (2,040 tons) in rolling 8 × 1,000 mm strip was observed in the seventh pass. Figure 1 shows the relation between mean pressure and 1:h<sub>m</sub> ratio

in roughing stand, where 1 = length arc of contact, h = mean height of cross section of strip being rolled.

As this ratio increased, the mean specific pressure grew due to a stronger effect of external friction, speed of deformation, and lower metal temperature. A comparison between theoretical and practical data showed good conformity. Theoretical data were calculated according to a method advanced by A. I. Tselikov (Stal', Nr 5, 1958). In rolling 2.0 x 1,000 mm strip, maximum experimental pressure (1,260 tons) was observed in the second pass.

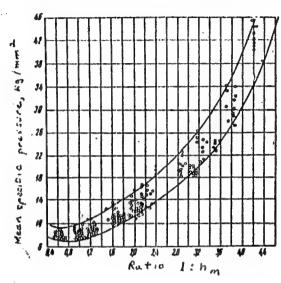
Card 2/6

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610004-3"

Investigation of 1,200-mm Reversing Thin-Strip Mill With Coilers Located in Heating Furnace

77610 SOV/133-60-2-10/25

Fig. 1. Mean specific pressure of metal on rolls. 1:h<sub>m</sub> ratio in roughing stand.



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Investigation of 1,200-mm Reversing Thin-Strip Mill With Coilers Located in Heating Furnace 77610 SOV/133-60-2-10/25

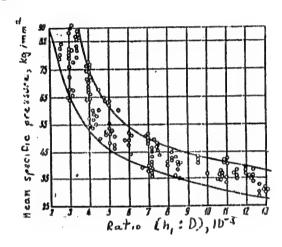
Figure 3 shows the relation between p and h1:D ratio in finishing stand; as the strip gets thinner, this ratio decreases while p increases. Maximum specific pressure (129 kg/mm<sup>2</sup>) was achieved/ in rolling 1.5 mm thick strip. A comparison of experimental and calculated pressure in finishing stand showed, on the whole, good conformity, although in some cases the difference amounted to 30%. The latter is due to errors in measurements of metal temperatures and reduction per pass. Maximum torsional moments on the main motor shaft of the roughing stand exceed the nominal moment by 1.2-2.5 times and by 1.4-2.0 times in the finishing stand, which is within permissable limits. Maximum specific power consumption in roughing stand did not exceed 24 kw/hr/ton in rolling an  $8 \times 1,000$  mm strip from a 120 mm thick slab. Rolling  $12 \times 1,000$  mm strip from the same slab requires a power consumption of 10.5-14.0 kw/hr/ton.

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Investigation of 1,200-mm Reversing Thin-Strip Mill With Coilers Located in Heating Furnace

77610 80V/133-60-2-10/25

Fig. 3. Mean specific pressure of metal on rolls.  $h_1$ :D ratio in finishing stand.



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#### "APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610004-3

Investigation of 1,200-mm Reversing Thin-Strip Mill With Coilers Located in Heating Furnace

ASKISHSHIKA DOSTANBERESKISKE EI BERE BEREKESA

77610 SOV/133-60-2-10/25

scattering is primarily due to uneven temperature conditions in rolling. Mctor was overheated in rolling 10-8 × 1,000 mm (from 2.1 to 2.5) in roughing stand. In rolling thicker or narrower strip the motor has a 10-30% heating margin. With a root-mean-square current in the finishing equalling  $I_{r-m-s} = (0.99-1.14)I_{nom}$ , the motor is also overheated during the rolling of 2.5 to 2.0  $\times$ X 1,000 mm strip in 5 passes, while working normally in rolling thicker or narrower strip. There are 6 figures; 2 tables; and 1 Soviet reference.

ASSOCIATION:

VNIIMETMASh

Card 6/6

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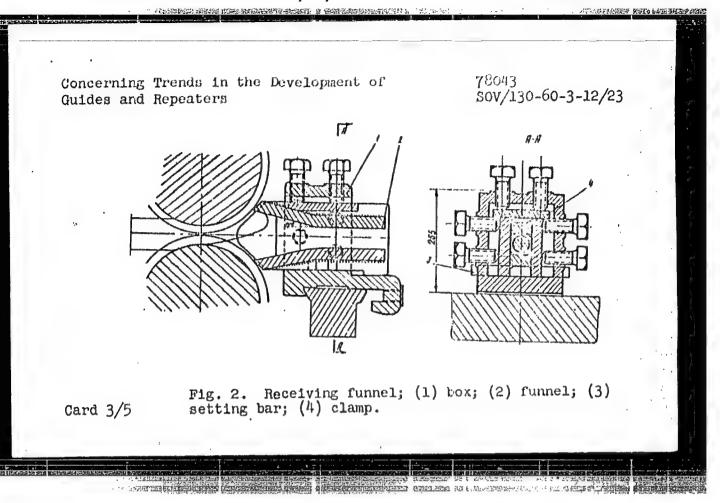
18.5100 78043 SOV/130-60-3-12/23 AUTHORS: Fedin, V. P., Prikhod'ko, I. F., Gritsuk, N. F. TITLE: Concerning Trends in the Development of Guides and Repeaters Metallurg, 1960, Nr 3, pp 17-22 (USSR) PERIODICAL: ABSTRACT: Before 1950 rolling mills were equipped with slidertypes only. At present roller-type guides are added to the above. Existing guides are classified according (1) position in stand; (2) design of grade units; (3) type of friction between strip and guide elements. Roll pass design has a considerable effect on the design of entry guide units. Delivery guides prevent bending of strip ends and secure correct entry into repeater. In rolling shapes and rails, slider-type guides are used. This is justified by the simplicity of such guides. In Soviet as well as foreign practice, roller guides with one pair of rollers (such as entry Card 1/5 boxes with rollers set on flat springs) are popular.

Concerning Trends in the Development of Guides and Repeaters

78043 SOV/130-60-3-12/23

Similar designs are used at finishing stands of section mills of Magnitogorsk Metallurgical Combine (MMK), Chelyabinsk, Makeyevo, Stalino, Krivoy Rog, and "Serp i Molot" Metallurgical Plants (Chelyabinskiy, Makeyevskiy, Stalinskiy, Krivorozhakiy i "Serp i molot" metallurgicheskiye zavody). Advantages: easy set-up, dependability, low forces in pushing strip through rollers. For simple shapes (rounds and squares) funnel-type guides are recommended, as designed by N. F. Gritsuk (see Fig. 2).

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Concerning Trends in the Development of Guides and Repeaters

78043 sov/130-60-3-12/23

S. V. Merekin suggested the use of twist rolls which were eventually modernized at Makeyevo Metallurgical Plant upon the proposal of V. F. Laganskiy and K. V. Kuchevskiy. Roller straighteners set behind the finishing stands prevent the strip from twisting before delivery to cooler. The life of roller-type guides and repeaters is prolonged by increasing the durability of main parts, i.e., rollers. In this connection rollers from gray and alloy cast iron with chilled surface as well as from low and medium carbon steel with surface hardfaced by TsI-IM, Ts-1, and Ts-2 hard-alloy electrodes are used. These rollers are reconditioned by repeated hard-facing directly in the shop. Roller-type guides are particularly recommended for intermediate and finishing stands of rolling mills for rolling nonferrous metals and alloys which are very sensitive toward scratching. Roller-type guldes used for small-shape and rod mills are of larger size than slider-type guides.

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Concerning Trends in the Development of Guides and Repeaters

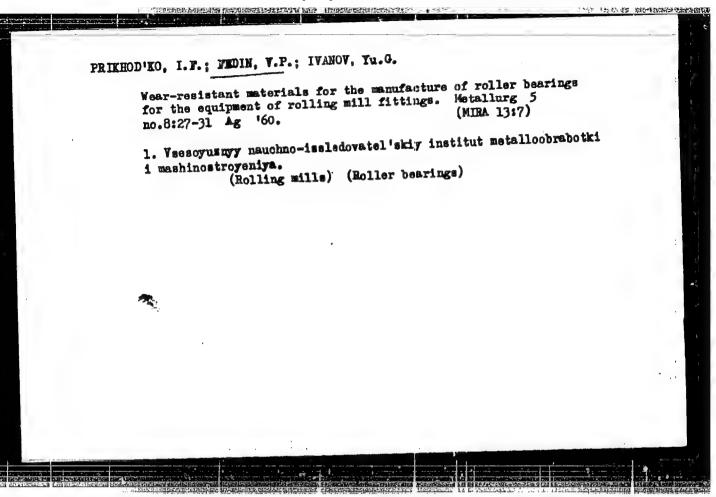
78043 SOV/130-60-3-12/23

Therefore, slider-type entry guides are preferred. Their wear resistance is increased by 7.5 to 13.5 times by chromizing or boronating work surfaces. In this respect, the authors recommend a study of the experience of such advanced countries as the United States and Sweden. There are 6 figures.

ASSOCIATION:

All-Union Scientific Research Institute of Metallurgical Machinery and Magnitocorsk Metallurgical Combine (VNIIMETMASh)

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S/133/61/000/003/009/014 A051/A033

AUTHORS:

Shevchenko, A. A., Doctor of Technical Sciences; Culyayev, G. I. Candidate of Technical Sciences; Anisiforov, V. P., Candidate of Technical Sciences; Arutyunov, I. G., Gandidate of Technical Sciences; Yurgelenas, V. A., Engineer, and Fedin, V. P., Engineer

TITLE:

The performance of two-high reducing mills with individual drive

PERIODICAL: Stal', no. 3, 1961, 251 - 256

TEXT: When planning three-high reducing mills, the VMITTERMSh and UkrNTTI made a thorough study of the two-high reduction mills with individual drive, not supplied with rotation-stabilizers. In order to match the operation of these two types of mills the single deformation values were taken a little higher ( $m_1 = 3.5 + 4.2 \%$ ) than usual in Soviet plants. The tube dimensions varied between  $96 \times 3.25 - 3.5$ ;  $96 \times 4 - 4.5$  and  $96 \times 5$  mm. The motor speeds for these types of tubes are given in table 2. Before reduction the tubes were heated to  $1040 - 1080^{\circ}$ C, the number of motor revolutions was recorded on the switchboard by means of an MM type tachovolt-Card 1/6

S/133/61/000/003/009/01i;

The performance of two-high reducing .....

meter with a relatively low accuracy (± 10 rpm). The data compiled for the average change indwall-thickness at the end and central parts of the tubes rolled in 21 and 17 stand mills are given in tables 3 and 4. They show that when the tension is increased the wall-thickness in the central part of the tube decreases, while the increase in wall-thickness at the tube ends will reach a maximum only at tensions of 0 - 0.5 %. In all other cases any increase in tension reduces the wall-thickness at the tube ends. Table h shows that the deviation in wall-thickness in lateral direction. suddenly increases at the ends, irrespective of the tension, while it decreases in the central parts, when the tension is raised. With templates of 96 x 4 and 96 x 5 mm tubes it was established that the transverse section remains fairly stable even when no tension at all was applied, whereas the 96 x 3.25 rm tubes displayed defects (beads and fractures) when reduced without tension, by 5.4 and 7 %. When applying a tension of 3.5%, no defects were observed in the wills of the 96 x 3.5 km tubes. The values of kinematic tension of 3.5 % in the 21-stand and of 4% in the 17-stand mills does not represent the limit. Experiments showed that it was possible to increase the kinematic tension and to produce tubes with even thinner walls in the central parts. If the tubes are rolled at the right temperature and

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The performance of two-high reducing....

the roll speed adjusted carefully, the coefficient of tension can be as high as 0.7 - 0.8 (Ref. 7: 0.1. Gulyayev; V. A. Yurgelenas: Determination of Some Basic Technological Parameters of Tube Reduction with Tension. Transactions of the UkrMTO ChM, 1958, vol. 13). Tests carried out to establish the maximum values of torques and those for stabilized operation show that the torque values characterize the non-uniform load of the stands which in the first place depends on the adjustment of the roll-speed. When the tension is increased from 3.5 to 1,8, the torques of the middlestand motors decrease uniformly, once the rolling process has been stabilized. The tests also proved that in the experimental reductions the motors were not always loaded to full capacity, while overloading also occurred due to the inaccurate adjustment of the revolution of rolls, (n). When calculating the reduction of the mills, depending on the tension applied, the wall-thickness of the tube and partial deformation obtained in one stand have to be taken into account. The oscillogram of current intensity shows that, at the rate at which the tube proceeds to the next stand, the current intensity curve declines, under the effect of the frontal tension of the following stand. This step-like character of the de-

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\$/133/61/000/003/009/01li A-5li/A033

The performance of two-high reducing ....

crease in current intensity indicates the moment, when the tube enters the next stand. When the tension at the rear (viewed from the preceding stand) is taken as constant, the maximum stretching force will be proportionate to the difference of the ordinates of the maximum and stabilized values of the current. The decrease in the general moment from the maximum to stabilized state will be proportionate to the moment acting on the stand investigated from the next following stand:

$$\triangle M_{gen} = TD_r \qquad (1)$$

$$T = k \Delta I \qquad (2)$$

where Mgen = general moment, k = coefficient of proportionality, v = vol-

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CIA-RDP86-00513R000412610004-3"

S/133/61/000/003/009/01l4 A05l4/A033

The performance of two-high reducing ...

tage, v, Dr = rolling diameter of the roll, ma, nior = velocity of idle rum of rolls, rpm, T = stretching force, kg, Imax and Istab = currnet intensities for maximum and stabilized moments, a. ABSTRACTER'S NOTE: subscripts gen. (general) , r(rolling) , i.r. (idle run), stab. (stabilized) are translations of the original co (obshchyy), K (katayushchyy), K (kholostoy khod) and (ustanovlenyy). Based on these formulas it is possible to calculate the atual stretching forces and longitudinal stresses in the tube on the stand, when being reduced at different thesions and various initial wall-thicknesses. The distribution of forces and stresses of tension has no regular character; e.g., the maximum value of tension stress is 3.6 kg/sq mm (practically the yield point of the metal processed) while at a tension of 3.5% it amounts to 2.6 kg/sq mm and at 4 % to 1.8 kg/sq mm. The maximum stretching force attains 2100 kg. The difference in stretching forces for the various stands of the mill are, to a certain extend, caused by the inaccurate adjustment of the rolls. The investigation of roil-speed shows that there is a deviation between the actual and the rated speed of the rolls, both in idle run and in operation. In some cases the speed increases for the subsequent rolls, sometimes, however, a

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#### "APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610004-3

s/133/61/000/003/909/01l<sub>4</sub>
A05l/A033

Ther performance of two-high reducing ...

decelaration is observed. The velocity drops on successive rolls affects the reduction process in several aspects: energy consumption, torques, forces, tension, etc. Therefore the correct adjustment of the number of revolution in stands with individual drive is of great importance, because variations in the roll speed result in an irregular change of energe-tic parameters, which unfavourably affects the tube quality. The tube walls will not be of uniform thickness and cracks may occur even at relatively low tensions. There are 5 figures, h tables and 8 references: 7 Soviet, 1 non-Soviet.

Card 6/6

S/137/61/000/007/020/072 A060/A101

AUTHORS:

Bayrakov, V. I., Fedin, V. P., Lazutin, A. G.

TITLE:

Some data from the investigation of the operation of the reversing

mill 1200 with reelers in the furnace

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 7, 1961, 7, abstract 7D38 ("Tr. Konferentsii: Tekhn. progress v tekhnol. prokatn. proiz-va".

Sverdlovsk, Metallurgizdat, 1960, 572-581)

TEXT: Investigations were carried out on the rolling of steel sheets mark St. 2 and St. 3 with thickness 1.5 - 2 mm and width 620 - 1,000 mm. It was established that 1) the metal pressure on the rolls increases from the first passes to the last ones in the roughing stand and in the planishing stand - inversely; 2) the average specific pressure increases with the ratio of the length of the gripping are to the mean thickness of the sheet being reduced (for the roughing stand); 3) the average specific pressure increases with decrease the roughing stand); 3) the average specific pressure increases with decrease in the ratio of the strip thickness after reduction to the roll diameter (for the planishing stand); 4) the maximum torques on the shaft of the motor installed are within admissible limits; 5) the maximum specific energy expenditure does

Card 1/2

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#### CIA-RDP86-00513R000412610004-3

Some data from the investigation ... 5/137/61/000/007/020/072
A060/A101

not exceed 24 kwh/ton; 6) to avoid motor overheating it is necessary to increase the number of passes.

V. Pospekhov

[Abstracter's note: Complete translation]

Card 2/2

 POLUKHIN, P.I., prof., doktor tekhn.nauk; HAYRAKOV, V.I., kand.tekhn.nauk; FEDIN, V.P., inah.

"Ghanges in the mechanical properties of metals and alloys under the effect of cold rolling" by V.A. Tret'lakov, K.M. Radchenko, Reviewed by P.I. Folukhin, V.I. Bairokov. V.P. Fedin. Stal\* 21 no.2:155 F'61.

(Rolling (Metalwork))(Tret\*iakov, V.A.)(Hadchenko, K.M.)

## "APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000412610004-3

S/133/61/000/012/002/006 A054/A127

AUTHOR:

Fedin, V.P.

TITLE:

Rolling mills with reelers in the furnace (as a matter for discus-

sion)

Stal', no. 12, 1961, 1,096 - 1,100 PERIODICAL:

Opinions are divided about the efficiency of reversing rolling mills with reelers in the furnace. Studies were carried out during a period of 3 years on the "1200" reversing rolling mill (with reelers in the furnace) of the Novolipetskiy metallurgicheskiy zavod (Novolipetsk Metallurgical Plant), which showed that this arrangement has a number of structural and technological drawbacks. Among other things, it was not possible to maintain the temperature of the strip coming from the roughing stand and the heat distribution was not uniform over the strip cross section. The heat distribution could be improved by redesigning the pulling rolls in such a way that the strip end, remaining outside the furnace, could not cool down before the pass. When the design of the heating furnace at the finishing stand was improved, the required temperature in the slab could be ensured. The rolling process on the finishing stand

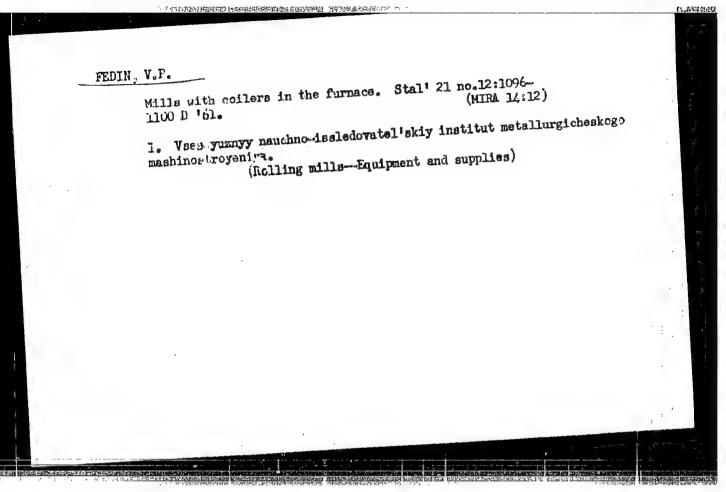
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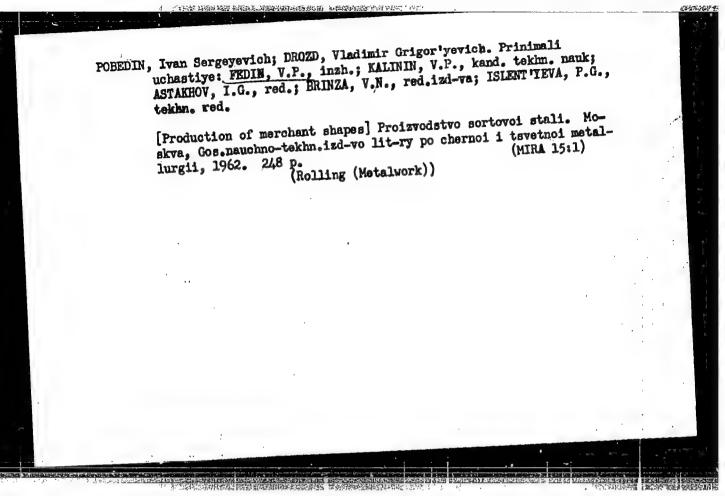
SHEVCHENKO, A.A., doktor tekhn.nauk; GULYAYEV, G.I., kand.tekhn.nauk; ANISIFOROV, V.P., kand.tekhn.nauk; ARUTYUNOV, I.G., kand.tekhn.nauk; YURGELENAS, V.A., inzh.; FEDIN, V.P., inzh.

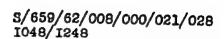
> Peformance of a two-high reduction mill with individual drive. Stal' 21 no.3:251-256 Mr '61. (MIRA 1416)

1. Ukrainskiy nauchno-issledovatel skiy trubnyy institut i Vsesoyuznyy nauchno-issledovatel skiy institut metalloobrabotki Vsesoyuznyy mano...
i mashinostroyeniya.
(Rolling mills)

# "APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610004-3







AUTHORS:

Panin, V.Ye., Zenkova, E.K., Fedin, V.P., and

Kudryavtsova, L.A.

TITLE:

The problem of high-temperature diffusion transformations

in solid solutions

SOURCE:

Akademiya nauk SSSR. Institut metallurgii, Issledovaniya

po zharoprochnym splavam. v.8. 1962. 161-168

TEXT: The alloys (Cu + 14.9% Al, Cu + 14.9% Al + 0.025% P, Cu + 14.9% Al, + 0.06% P, all percentages atomic) were homogenous solid solutions up to  $1030^{\circ}$ C. The electric resistivity of the alloys ( $\rho$ ), measured at room temperature, was a function of the quenchin temperature (T<sub>Q</sub>), reaching a maximum value of 10.48 and 11.02 microchus. cm. for pure and P-containing alloys respectively at T<sub>Q</sub>=400-500°C. The  $\rho$  of the alloys quenched in water was higher than that of the alloys cooled in air. The hardness (H<sub>V</sub>) - T<sub>Q</sub> relationship was similar to the  $\rho$  - T<sub>Q</sub> one, with H<sub>V</sub>(max) = 55 kg./sq.mm. for the pure

Card 1/3

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S/659/62/008/000/021/028 I048/I348

The problem of high-temperature diffusion...

alloy quenched from 450° in water. This indicates that the increase in  $\rho$  is not caused by excessiv vacancies in the alloy, and that the P from the P-containing alloys combines with the vacancies reducing their mobility. Both  $\rho$  and  $H_{V}$  in the alloys quenched from 700°C are lower than in non-quenched specimens, indicating the existence of a highly ordered structure in the alloys quenched from high-temperatures. During annealing,  $\rho$  decreases with time at the annealing temperature, the decrease in the pure alloys being much larger than in the P-containing ones, i.e., the stability of the quenched state is much higher in P-containing alloys. The energy of activation of the diffusion processes increases with the P content of the alloy and reaches 35±3.7 kcal./mole in an alloy containing 0.06% P, which is almost twice the value for the pure Cu-Al alloy; due to the decreased mobility of vacancies in the P-containing alloys. Diagrams show the effect of temperature on the electric resistivity and internal friction in the alloys. In the friction

Card 2/3

S/659/62/008/000/021/028 1048/1248

The problem of high-temperature diffusion ...

diagram for pure alloy maxima at 260°C and 520°C are associated with the motion of the constituent atoms, and with stress relaxation on the grain boundaries respectively. The internal friction in pure alloy specimens quenched from 700-900°C and in the alloys containing P is much lower than in the annealed pure alloy; this proves that the specimens quenched from high temperatures possess an ordered structure, and that the P from the P-containing alloys reduces the mobility of defects within the alloy. There are 3 figures.

Card 3/3

A STATE OF THE STA

FEDIN, V.P.; IVANOV, Yu.G.

Guide unit on continuous billet mills, Metallurg 8 no.5:23-27
My '63.

1. Vsesoyusnyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut metallurgicheskogo mashinostroysniya.

(Rolling mills---Equipment and supplies)

35941

9.6150

s/024/62/000/001/012/013 E140/E435

AUTHOR: .

Fedin, V.T. (Moscow)

TITLE:

On the problem of determining the spectral density at

the output of a synchronous detector for a

modulation type radiometer

The Parish in A LESS SHIP MINISTER STATES SHIP

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Energetika i avtomatika. no.1, 1962, 181-185

The author claims that the previous literature on the TEXT: correlation function at the output of a synchronous detector of a modulation type thermal noise receiver is in error. This error arises from the assumption that the correlation function component

$$-x(t)x(t+\tau)\frac{\cos\nu(2t+\tau)}{2}=0$$

(1.2)

and constitutes an error of the order of 100% in the work where this is used. The author finds that this expression should be taken equal to

Card 1/2

5/024/62/000/001/012/013 E140/E435

On the problem of determining ...

 $x(t)x(t+\tau)\frac{\cos\nu(2t+\tau)}{2} = x_1(t)x_1(t+\tau)\sin\nu t \sin\nu(t+\tau)$ 

On this basis, he obtains the expression

 $S(\omega) = \pi k^{3} \left\{ \frac{(\bar{u}_{0}^{2})^{3}}{4} \delta(\omega) + 4 \left[ \frac{35}{128} (\bar{u}_{0}^{2})^{3} + \frac{3}{4} \bar{u}_{0}^{3} \bar{u}_{m}^{2} + (\bar{u}_{m}^{2})^{2} \right] \frac{1}{\Delta \omega} \right\} + \\ + \pi k^{2} \left\{ \frac{(\bar{u}_{0}^{2})^{3}}{4} \delta(\omega) + \left[ \frac{7}{16} (\bar{u}_{0}^{2})^{2} + \frac{1}{2} \bar{u}_{0}^{3} \bar{u}_{m}^{3} \right] \frac{1}{\Delta \omega} \right\}$ (2.15)

where the subscripts c and W indicate signal and noise, respectively and the remaining notation is evident;  $k^2 = k_2^4 k_3^2 k_4^2$ ;  $\delta(\omega)$  is delta function. The error  $\delta(\omega)$  is delta function. The error of the previous formulae increases when the signal level exceeds the intrinsic noise of the radiometer proper noise, and influences the determination of the resolution (threshold sensitivity) of the There are 3 figures. instrument.

SUBMITTED:

April 5, 1960

Card 2/2

#### CIA-RDP86-00513R000412610004-3 "APPROVED FOR RELEASE: 03/20/2001

5/024/62/000/003/011/011 E140/E463

AUTHOR:

Fedin, V.T. (Moscow)

TITLE:

Certain methods of controlling the output

characteristics of low-frequency and ultra-low-

frequency noise generators

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye

tekhnicheskikh nauk. Energetika i avtomatika,

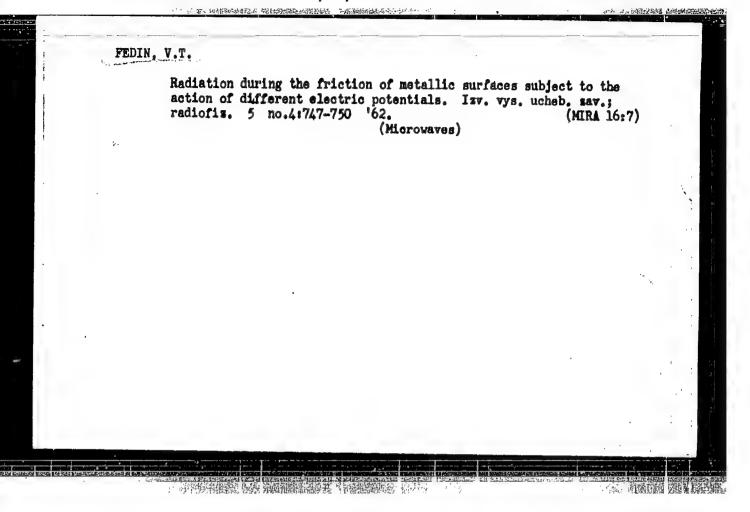
no.3, 1962, 208-215

The author considers the possibilities for modifying the TEXT: output (frequency) characteristics of low-frequency noise generators utilizing normal noise generators and synchronous or square-low frequency changers. He shows that the latter are simpler but that the former present richer possibilities of varying the characteristics. There are 8 figures.

SUBMITTED:

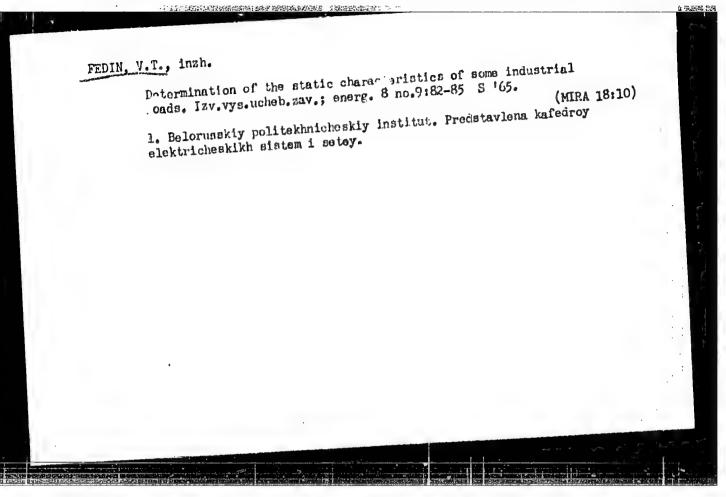
January 3, 1961

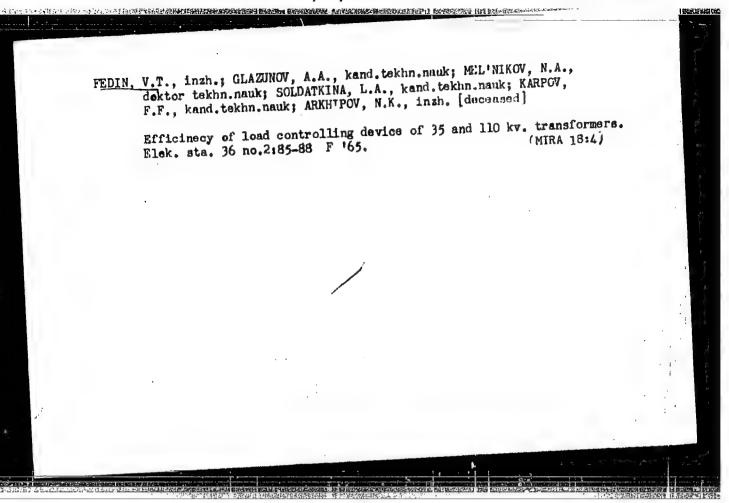
Card 1/1



NIKOLAYEV, Andrey Grigor yevich: PERT:OV. Sergey Viktorovich;
PERESLEGIN, S.V., retsenzent; FEDIN, V.T., retsenzent;
KRASOVSKIY, A.A., prof., doktor tekhn.nauk, nauchn. red.
MASHAROVA, V.G., red.

[Radar detection of thermal radiation; passive radar] Radioteplolokatsiia; passivnaia radiolokatsiia. Moskva, Sovetskoe radio, 1964. 334 p. (MRA 17:12)





PTUKHA, T., kand.fiz.-matem.nauk; FEDIN, Ye. [Fedin, E.], kand.fiz.-matem.nauk

Researcher in a miracle world. Znan. ta prateia no.3:18-19 Mr
(MIRA 16:10)

163.

GARNOV, V.V.; FEDIN, Ye.D.

High speed starso radiography. Zhur. nauch. 1 prikl. fot. i kin. 10 no.2:124-131 Mr-Ap 165. (MIRA 18:5)

1. Institut fiziki Zemli imeni Shmidta AN SSSR.

Mechanization and automatic control in industry is the main road toward reducing labor consuming operations in reinforced concrete shipbuilding. Sudostroenie 28 no.1:59-61 Ja '62.

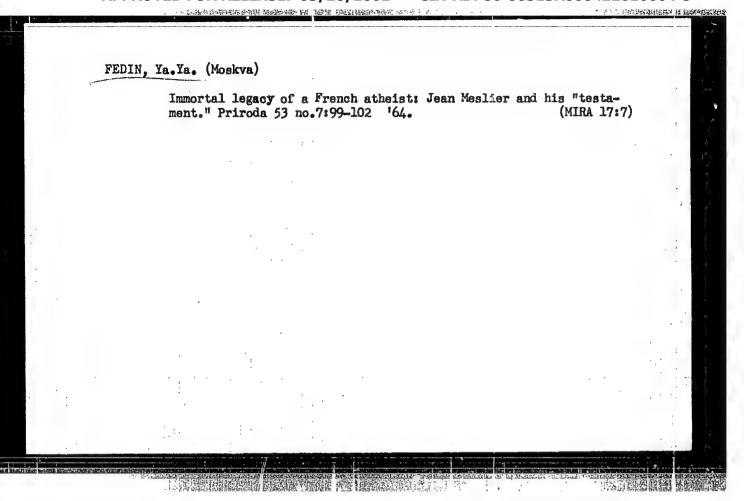
(Ships, Concrete)

(Shipbuilding—Equipment and supplies)

BATRAKOV, V.G., kand. tekha. naukr FEDIN, Ye.I., inah.

Service life of shipkilding concrets exposed to pickling solutions and brines. Sudostroenie 30 no.12:34-37 D '64.

(MIRA 18:6)



L 36268-65 EWT(1)/T/EED(b)-3 Pas-2 IJP(c)

ACCESSION NR: AP5008169 S/0286/65/000/005/0052/0052

AUTHORS: Fedin. Ye. D.: Garney. V. V.: Lipanin, C. C.

TITLE: A device for high-speed pulsed stereoscopic x-ray photographing of rapidly

SOURCE: Byulleten' izobretaniy i tovarnykh anakov, no. 5, 1165, 52

TOPIC TAGS: x ray photography, stereoscopic photography. spitial parcaption

ABSTRACT: This Author Certificate presents a device for the high-speed rulsed stereoscopic x-ray photographing of rapidly occurring processes. It contains pulsed

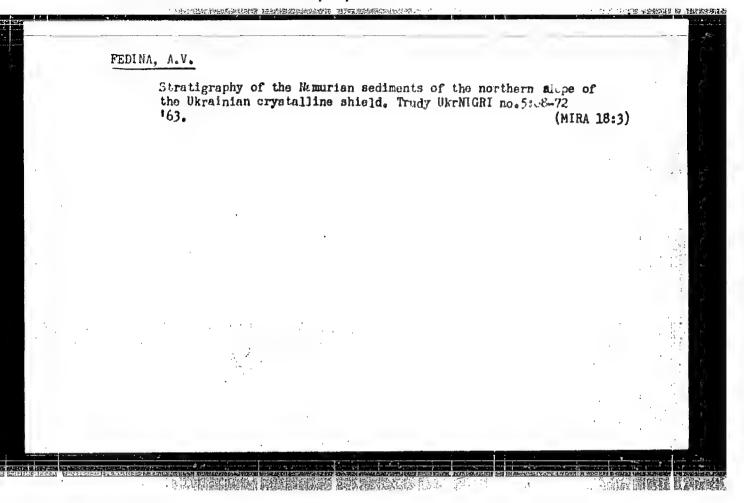
x-ray tubes, pulse voltage generators, and a synchronizing duvine fees Pie: 1 on the

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FEDINA, A. B., MEDVEDEV, 28H. A. (USSR)

"A study of Cortain Peptide-nuclectide Compounds in Crops and their possible role in the Synthesis of Albumins."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 August 1961



- 1. FEDINA, A. YE.
- 2. USSR (600)
- 4. Geology and Geography
- 7. Books on Crimea. Reviewed by A. Ye. Fedina, Sov. Kniga, No. 4, 1952.

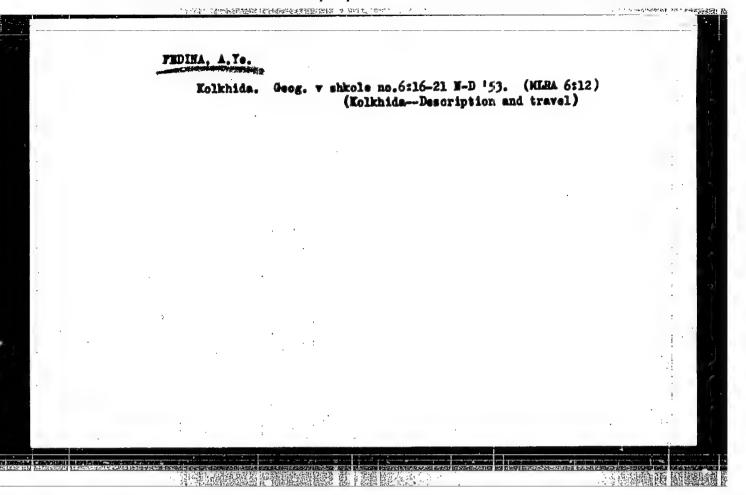
9. Report U-3081, 16 Jan 1953, Unclassified.

FEDINA, A. TE.

Dissertation: "Experience Gained in the Physicogeographical Regionalization of the Caucasus (In Connection With the Creation of Exhibits for the Geography the Caucasus (In Connection With the Creation of Exhibits for the Geography the Caucasus (In Connection With the Creation of Exhibits for the Geography the Caucasus (In Connection With the Creation of Exhibits for the Geography the Caucasus (In Connection With the Creation of Exhibits for the Geography the Caucasus (In Connection With the Creation of Exhibits for the Geography the Caucasus (In Connection With the Creation of Exhibits for the Geography the Caucasus (In Connection With the Creation of Exhibits for the Geography the Caucasus (In Connection With the Creation of Exhibits for the Geography the Caucasus (In Connection With the Creation of Exhibits for the Geography the Caucasus (In Connection With the Creation of Exhibits for the Geography the Caucasus (In Connection With the Creation of Exhibits for the Geography the Caucasus (In Connection With the Creation of Exhibits for the Geography the Caucasus (In Connection With the Creation of Exhibits for the Geography of Caucasus (In Connection With the Creation of Exhibits for the Geography (In Connection With the Creation of Exhibits for the Geography (In Connection With the Creation of Exhibits for the Geography (In Connection With the Creation of Exhibits for the Geography (In Connection With the Creation of Exhibits for the Geography (In Connection With the Creation of Exhibits for the Geography (In Connection With the Creation of Exhibits for the Geography (In Connection With the Creation of Exhibits for the Geography (In Connection With the Creation of Exhibits for the Geography (In Connection With the Creation of Exhibits for the Geography (In Connection With the Creation of Exhibits for the Geography (In Connection With the Creation of Exhibits for the Geography (In Connection With the Creation With the Creation of Exhibits for the Geography (In Connection With the Creation With

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SO: SUM 393, 28 Feb 1955



Z-DINA, A. YE

14-57-7-14392

Referativnyy zhurnal, Geografiya, 1957, Nr. 7, Translation from:

p 19 (USSR)

**AUTHORS:** 

Ovozdetskiy, N.A., Fedina, A.Ye.

TITLE:

Physical Geographical Districts in the Caucasus (Fiziko-

geograficheskoye rayonirovaniye Kavkaza)

PERIODICAL:

Vopr. geografii, 1956, sb 39, pp 130-150

ABSTRACT:

This new division was accomplished by analyzing the interaction of all physical and geographical factors.

The historical, or more accurately, the genetic

approaches were used whenever possible. Close at tention was paid to the relief. The authors have tried

to find the processes or factors which caused the differentiation among the regions. Changes caused by human activities were studied as far as possible. The authors regard the zones differentiated by the ele-

vation on mountain slopes merely as one provincial

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Physical Geographical Districts (Cont.)

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or local peculiarity. A map of the physical districts of the Caucasus is included. It shows the region to be divided into 46 districts.

1. The western and central Ciscaucasian district. IA. The western Ciscaucasian subdistrict: 1) the Kuban'—Azov plain; 2) the Kuban' Sloping plain; 3) the Kuban' delta; 4) the Taman' Peninsula. 1B. The central Ciscaucasian subdistrict: 5) the Stavropol' highland; 6) The central Ciscaucasian subdistrict: 5) the Mineral'nyye Vody laccolith northeastern Stavropol' region; 7) the Mineral'nyye Vody laccolith northeastern Stavropol' region; 7) the Mineral'nyye Vody laccolith region; 8) the Terek—Sunzha highland; 9) the Kabardinskaya, Osetins—kaya and Groznenskaya sloping plains. II. The Caspian lowland district. IIA. The Terek—Kuma lowland subdistrict: 10) the Kuma plain; trict. IIA. The Terek—Kuma sand mass, which includes the adjacent section of the Terek River valley; 12) the deltas of the Terek and Sulak Rivers. III. The Greater Caucasus district. IIIA. The subdistrict on the northern slope of the Great Caucasus: 13) the Black Sea Caucasus; 14) the Kuban'—Ardon cuesta region; 15) the Ardon—Sulak region; 16) the Outer Dagestan region and the intermountain district of northern Azerbaijan; 17) the limestone karst region in southeastern Dagestan;

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Physical Geographical Districts (cont.)

18) the interior limestone part of Dagestan; 19) the Caspian foothill littoral region; 20) the Samur-Akzybir region; 21) the Caspian Caucasus. IIIB. The high mountain Great Caucasus subdistrict: 22) the high mountain region in western and central Caucasus; 23) the high mountain region in the eastern Caucasus. IIIC. The subdistrict on the eastern slope of the Great Caucasus: 24) the northern Black Sea region; 25) the northern Pontic foothills (Sochi) 26) the southern Pontic foothills (Kolkhida); the limestone karst region; 28) the Pontic foothills (Kolkhida); the limestone karst region; 28) the intermountain region of Georgia and Azerbaijan. IV. The Kolkhida lowland district: 29) The eastern Kolkhida region; 30) the maritime Kolkhida region. V. The Kura valley district: VA. The Apsheron-Kura subdistrict: 31) the Apsheron Kobystan region; 32) the Kura-Araks subdistrict: 31) the Apsheron Kobystan region; 32) the Kura-Araks lowland. VB. The Kura Alazani subdistrict: 33) the Kura region; 34) the Shirakskaya (Steppe)-Adzhinour region; 35) the Alazani-Agri-Chay region; 36) the Goria region. VI. The trans-Caucasian higher and district. VIA. The Little Caucasus subdistrict: 37) the Adzhaland district. VIA. The Little Caucasus subdistrict: 37) the Adzhaland district. VIA. The Little Caucasus subdistrict: 37) the Adzhaland district. VIA. The Little Caucasus subdistrict: 37) the Adzhaland subdistrict; 40) the Dzhavakhetskiy region; VIB. The Armenian highland subdistrict; 40) the

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Physical Geographical Districts (Cont.)

41) the Aragats-Karabakhskiy region; 42) the Daralagezskiy region; 43) the central Araks basin. VII. The Girkanskaya district. VIIA. The Talysh-Lenkoran' subdistrict: 44) the Lenkoran' lowland; 45) the Talysh region; 46) the region which forms the incised part of the Talysh and of Diabarskaya Kotlovina [Basin] (Zuvand). A bibliography of 55 titles is included.

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